

THE TECH

VOL. XXXI. NO. 169

BOSTON, MASS., WEDNESDAY, MAY 15, 1912

PRICE TWO CENTS

M. E. SOCIETY HEARS CHARLES T. MAIN

Reads a Paper on Efficiency and Special Uses of Power Plants.

Monday afternoon at 4 o'clock the Mechanical Engineering Society met in 11 Engineering B to hear Mr. Charles T. Main read a paper on "Efficiency and Special Uses of Power Plants." Mr. Main commenced by outlining five important items that must be taken into consideration when designing a plant and then treated each in detail. He said in part:

"The first item is the reliability of power. It is essential that the plants be capable of producing power continually and without shutdowns, for a shutdown of one hour may sometimes reduce the profit for a whole year one per cent. or more. Some firms will not keep a man that has more than two shutdowns a year. To prevent shutdowns precautions must be taken to keep everything in good order and to be prepared to meet all emergencies.

"The next item is the simplicity of parts. Care must be taken to avoid as much as possible complicated parts and delicate machinery, for although they may save a little, the net effect in the case of a breakdown is a loss. Moreover, if the devices employed are at all out of the ordinary it will be difficult to procure men for the work and will thus be a net loss.

"The adaptability of a power plant to special uses is important, especially where the power is used irregularly. In some plants as much as twenty per cent. of the steam from the low pressure cylinders is used for heating and running other small machines. In laundries and dyehouses the special uses of the steam are especially important.

"The last item is the first cost of plant. If one intends to manufacture something in the nature of an experiment it is usually best not to invest in a large plant; but when the product is something with a well established demand it is wise to build the best plant possible. The reason for this is that besides the reliability thus obtained, renovation is costly, and a good plant is in the end the most economical.

"The choice of water power, gas or electricity, depends in the last analysis upon the readiness with which these may be procured and upon the needs for the special work."

COSMOPOLITAN CLUB.

The Cosmopolitan Club will elect officers for the coming year at its last meeting to be held in the Union Thursday. The meeting will start at 4 o'clock, and as there is no business other than the elections, the session will be a short one. The officers have sent notices to all the members through the mail, and ask every man who can to be present. The nominations were made last week, but as yet have not been given out to the public.

BATTALION INSPECTION.

The annual inspection of the Technology Freshman Battalion by the State of Massachusetts will be held tomorrow afternoon at 3 o'clock, in the Irvington Street Armory, and Major Taft feels confident that the battalion will give a favorable exhibition. The work of the Freshmen has improved greatly of late.

FRESHMEN DEFEAT THE SOPHOMORES

Underclassmen Take Second Game of Series—Score 4 to 3.

With a tie score of 3 to 3, two men down, and the bases full in the ninth inning, Scully brought in the winning run for the Freshmen with a short infield hit. The game was fast and interesting at all stages and clearly demonstrated that a third game was necessary to decide the class championship.

The Sophomores started the scoring in the second inning with two runs. The Freshmen opened with one run in the third, which feat the Sophomores duplicated in their half of the same inning; score 3 to 1. There were no more tallies until the eighth, when the Freshmen counted twice, tying the score. The winning run was scored in the last half of the ninth by the Freshmen.

In the eighth Caffery started the ball rolling with his single to center field, bringing in two scores for the Freshmen. His work throughout the game was of the best. Scully deserves mention as a pinch hitter of unusual ability.

For the Sophomores, Bryant played a good game at third, and Tirrill distinguished himself with the longest hit of the game, a three bagger, which at first looked good for a home run.

Both catchers had their men nailed to the sack, only two stolen bases being charged to each. The fifth inning indicated the quality of the Freshmen's fielding. In this inning Turner delivered only three pitched balls to as many men. This game marked Turner's first appearance in the pitcher's box, and his work was good. Both pitchers were credited with nine strikeouts.

The game was umpired by Pendleton and his decisions were satisfactory at all times.

The summary:

(Continued on Page 2, Col. 2.)

DEBATING CLASS.

The last debate of the Argumentation and Debate class will be held this afternoon at 4 o'clock, in 11 B. As with the debate of last week, this is open to the Institute, and Professor Pearson is hoping for an audience.

The question to be debated is: Resolved, that a system of compulsory arbitration of industrial disputes should be established in Massachusetts. The debaters for the affirmative are: B. S. Munch, A. J. Pastene and H. D. Peck, while those for the negative are: W. E. Caldwell, N. Clark and C. G. Fallon. E. M. Mason will preside and F. H. Achard, E. C. Crocker and F. H. Pendleton, Jr., will be the judges.

THE TECH BANQUET.

Tomorrow night, at the Copley Square Hotel, THE TECH will hold its annual banquet. The elections for next year's staffs will be announced at that time.

Professor Arlo Bates, Mr. J. R. Ruiter, the printer of THE TECH, and Mr. Roswell Pearl, the professional coach, will be the speakers.

Bela Pratt's bronze statues in the Public Gardens are attracting a great deal of attention. One of them, two athletes in acrobatic pose, is particularly interesting.

GOLF TOURNAMENT DRAWING TO A CLOSE

Many Players Win Matches By Defaults—Final Games This Week.

The winner of the Spring golf tournament will probably be decided by the end of this week, as only six or seven more matches remain to be played.

In the first round of matches O. G. Norton defeated W. T. Roberts, 4-3; D. V. Mason defeated G. W. White by default; J. S. Churchill defeated R. B. Haynes by default; W. Fleming and H. E. Rogers were both given a default; A. L. Todd defeated G. P. Capen by default; W. N. Holmes defeated F. Mackentepe, 4-3; N. W. Rogers defeated H. G. Manning, 6-5; P. A. Russell defeated V. R. Jaynes by default; W. M. Africa defeated J. M. Beale, 1 up; A. E. Howlett defeated E. A. Downey by default; C. B. Hull defeated J. C. Goff, 1 up; Blatchford defeated Crittenden by default.

Five of the second round of matches have also been played, leaving only one more to be decided this week. In this set Nason defeated Norton, 3-1; Churchill was awarded his match as both Fleming and Rogers were given a default; Holmes defeated Todd, 7-6; Howlett defeated Africa, 3-2; and Hull took his match from Blatchford, leaving only the match between N. W. Rogers and P. A. Russell to be played.

COURSE III MEETING.

Election of Officers and Talk By Prof. Richards Today.

"My Western Trip" is the subject of Professor Richards' talk to be given before the Mining Engineering Society in the Union at 8 o'clock this evening. This will be the last meeting of the society this year and all the new officers will be elected. For this reason, as well as because the talk is sure to be very interesting, the present officers urge the attendance of every member. After the meeting refreshments will be served.

Professor Richards is at the head of the Mining Engineering department and honorary president of the society. Several months ago he made a trip to some of the mining districts of the Middle West. In Colorado he visited Denver, which is the center of the gold and silver fields of that State, and also the famous Colorado School of Mines at Golden. He also stopped at Rollan, Missouri, where the Missouri School of Mines is situated, and at Hancock, Michigan, which is devoted largely to the concentration of copper.

BIOLOGICAL SOCIETY.

On Thursday afternoon, at 4 o'clock, the Biological Society will hold a meeting in 28 Pierce, at which officers will be elected and business discussed. The probabilities are that a Sophomore will be elected president.

One of the subjects to be discussed is the motion made to change the name of the society to the Biosanitary Society.

There are few real good sprinters now in the college ranks. Since Marshall of Penn has been laid up, Carey, of West Point, Wasson of Notre Dame, and Wilson of Coe College are about the fastest. Carey is said to be good for 9.4-5 seconds, and Wasson for 10 flat.

CHANGES ANNOUNCED AT CHEMICAL BANQUET

Extra Work Planned for Chemical Courses—Dr. Walker to Head Course Ten.

The Chemical Society held its annual banquet last night at the Copley Square Hotel. After the sixty men present had finished the dinner, President Hugo Hanson announced the results of the election of officers for the coming year. C. H. Albee, '13, a member of the Dining Room Committee, is the new president; H. G. Bruner, '13, is vice-president; R. H. Howes, secretary, and H. Rogers, treasurer. For the Program Committee two 1913 men, A. W. Carpenter and G. W. Forrester, were chosen.

Professor Talbot then took the opportunity to speak to the men on the changes that are being made in Courses V and X. He said that both of these courses, especially that of Chemical Engineering, had grown so rapidly that he was going to shift the responsibility for the care of Course X upon Dr. Walker, a man who is a chemical engineer rather than a chemist. This change will give Professor Talbot an opportunity to develop Option I of Course V, so that its graduates can meet the increasing demand for research chemists.

Another important change will be the introduction of a compulsory course in Qualitative Analysis during the summer of the Freshman year. This course will last five weeks, and will be given without any extra tuition charge. Qualitative Analysis will occupy the second year, and the extra time gained will be divided among the last years. Course X will get more shop work, and the mechanical engineering drawing will follow the courses in mechanism more closely. During both of the terms of the fourth year a new course in Chemical Engineering will be introduced. Option I will have three term's work in experimental problems in general, theoretical and organic chemistry in preparation for research problems.

After Professor Talbot had requested the Seniors to let him know of changes in their addresses and positions, the members were entertained by Messrs. O'Neil and Story. They sang "That Briny Dip" and several other hits. The banquet broke up with a regular M. I. T.

The American Marathon team should be able to clean up anything in Sweden. With Ryan, DeMar, Sockalexis and Madden running, the distance men of the other countries seem to have a poor chance of winning.

THE WEATHER.

Forecast for Boston and vicinity: Wednesday fair; moderate westerly winds.

CALENDAR.

In Charge of S. H. Taylor, 1914.

Wednesday, May 15.

8.00—Mining Engineering Society—Union.

Thursday, May 16.

4.00—Election of Officers for Cosmopolitan Club—Union.

3.00—Battalion Inspection—South Armory.

4.15—Cosmopolitan Club—Election of Officers—Union.

7.00—THE TECH banquet.

Friday, May 17.

8.00—Prize Drill—South Armory.

THE TECH

Published daily, except Sunday, during the college year by students of the Massachusetts Institute of Technology.

Entered as second-class matter, Sept. 15, 1911, at the postoffice at Boston, Mass., under the act of Congress of March 3, 1879.

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Subscriptions, \$2.00 per year, in advance.
Single copies, 2 cents.

Subscriptions within the Boston Post District and outside of the United States must be accompanied by postage at the rate of one cent a copy.

All communications should be addressed to the proper departments.

Printed by Rutter, 147 Columbus Ave.

WEDNESDAY, MAY 15, 1912

MORE TECH BUTTONS.

A few days ago we were guilty of a series of rather irrelevant remarks concerning the proposed Tech buttons. Perhaps some of our readers will be charitable enough to overlook the means in recognition of the fact that they apparently resulted in the desired arrival of those decorations. For the benefit of the others we will inform them that whatever may have been their own impressions, the sentiments that we wished to convey were that the plan of those buttons was one of the most brilliant and beneficial ever originated for uniting all elements of the Institute, Alumni and undergraduate, and that we were sincerely interested in an early appearance of the badge upon the lapels of loyal Tech men.

In view of this information, unobscured by a fog of words, we express our hope that the student body receive these buttons with the same enthusiasm with which they greeted the proposal. Any innovation at Tech apparently has to run the gauntlet of a storm of criticism and ridicule, fair and otherwise, so we fear we must expect no better treatment in this particular case. However, we would call attention to some of the opportunities for benefit which this plan possesses.

We have every reason to believe that the Alumni will very generally accept this simple form of insignia. The present campaign for funds for the New Technology has united the existing associations in one common object and has brought about the formation of numerous new associations. Therefore at this time when enthusiasm is high the field is ripe for the introduction of this simple but wonderfully effective little badge.

When we look back upon our Institute course over the desert of the first few years of experience with the cold world the aptness of our present ridicule of existing phases of Tech life will not be so apparent. We do not now fully appreciate the Institute and what our four years have given us; and furthermore, in the rush of work and play we do not realize the need of unity, of a common interest and enthusiasm. Therefore we beg that those who are inclined to imitate the cold shower bath in this matter of the Tech buttons will kindly defer their judgment, or at least refrain from extravagant expression of it.

FACULTY NOTICE.

First Year.

The drill scheduled for Wednesday, May 15, will, on account of the annual inspection, be postponed to Thursday afternoon, May 16, at 3 P. M.

All first year exercises scheduled for Thursday afternoon will be held Wednesday.

W. HUMPHREYS,
Registrar.

FACULTY NOTICE.

In accordance with the rule of the Faculty thesis are to be handed to the Secretary of the Faculty not later than Monday, May 20, 1912.

My office will be open from 8.30 A. M. until 5 P. M. on that day.

A. L. MERRILL,
Secretary.

FACULTY NOTICE.

Physical Laboratory—Second Year,
Courses VI and VIII.

Attention is called to the fact that a final record of "F" in Phys. Lab., 773, may be removed only by passing satisfactorily the fall (condition) examination in Phys. Lab. Recitations, in addition to completing later such work in the Laboratory as may be necessary in individual cases.

N. C. PAGE.

SOPHS VS. FRESHMEN.

(Continued from Page 1, Col. 2.)
1915.

	AB	H	PO	A	E	R
Scully, 2	5	2	3	2	0	2
Morse, 1	4	2	10	0	0	1
Caffery, ss	4	2	0	4	0	0
McDeavitt, lf	3	0	2	0	0	0
McIntyre, cf	4	1	1	0	0	0
Howlett, 3, rf	3	1	1	0	0	0
Roy, rf	1	0	0	0	0	0
Hall, c	4	2	9	2	0	1
Turner, p	4	2	0	2	1	0
Franks, 3	3	0	0	1	0	0
Totals	35	12	27	11	1	4

1914.

	AB	H	PO	A	E	R
Bryant, 3	4	2	3	2	0	1
Comber, 2	4	1	2	4	0	0
Storke, c	4	0	11	2	0	0
Tirrell, 1	4	1	9	1	0	1
Hardy, lf	3	1	0	0	0	1
Gardiner, ss	3	1	1	4	3	0
Page, cf	4	1	0	1	0	1
Stewart, rf	2	1	0	0	0	0
Pearly, rf	2	1	0	0	0	0
Morrison, p	4	0	0	3	0	0
Totals	34	9	26	17	4	3

*Game called with two men out in the ninth.

J. T. Keady has been engaged as coach for the football and basketball teams at Lehigh University for next season. Mr. Keady is now coaching the baseball and track teams at that place.

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PROF. SEDGWICK BACK FROM PHILADELPHIA

Biological Department Has Many Representatives in Public Positions.

Professor William T. Sedgwick, head of the Biological department, has just returned from a meeting of the American Philosophical Society of Philadelphia, the oldest scientific association in the country and one of the most classic. His subject was "Is Typhoid Fever a Rural Disease?" Professor Sedgwick has been gathering facts that show that the country places have had a reputation far worse than belongs to them, and that it is the thickly populated places that show the most sickness.

Dr. Sedgwick also exonerates the house fly from the stigma of being the carrier of typhoid. He said, "It is not true that the house fly is the disseminator of typhoid fever germs, but rather, the disease is spread through the food and water supplies."

The Philadelphia meeting was essentially one of Institute men, for other authorities who discussed the subject were G. R. Taylor, '06-'07, of Scranton, Penn. and J. S. MacNutt, '08, health officer of Orange, N. J.

Professor Sedgwick's department has recently furnished a number of officers of public health, appointments being made both from the undergraduates and from the graduates. Members of the department say that there are not men enough to fill all the applications the department receives. President MacLaurin stated on his Western trip that Technology could supply only about half the demands made upon it for public health officers. This statement is borne out by the appointment of F. M. Osborne, now a graduate student at Tech, as assistant to the health officer of Montclair, N. J., and L. M. Matthews, a special student in the department as expert in charge of a portion of the mosquito work of the same city. In the same work, L. J. Harrigan of the Tech sanitary engineers will be assistant. C. H. Wells, a graduate of Technology, '02, is the health officer of Montclair, and is undertaking this year a comprehensive work in mosquito prevention, dividing the city into six districts, of which the men named will have charge of two.

Another recent appointment from Professor Sedgwick's department is J. R. Harrington, who is to be special assistant in studies on school ventilation in New York city. S. M. Schmidt, a graduate of last year, who has since then been engaged in research work, has been appointed assistant inspector for the city of Boston, and it is interesting to note that the first application for the advertised place of chairman of the Boston Health Department, now occupied by Dr. Durgin, was B. R. Richards, a graduate of 1899, who has been at the head of the Boston city bacteriological laboratory and that of the State of Ohio.

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FIRST YEAR.

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A. E. BURTON,
 In charge of the Department of Physical Training. (tf)

PRECISION OF MEASUREMENTS.

At the request of a number of students who failed to hand in problems in Precision of Measurements at the assigned time, a second set of problems has been posted in Room 16, which if solved and handed in on or before Saturday, May 18, will remove the mark of D (deficient) which will otherwise be returned with the record on the term work and final examination.

FACULTY NOTICE.

The last exercises in the Physical Laboratories, Rooms 10 and 16, Walker, will be on Saturday, May 18. The Laboratories will be open, for consultation only, between 12 and 1, Wednesday, May 22, Thursday, May 23, and Saturday, May 25. Students having reports returned them for correction should, if possible, hand them back corrected before the Laboratory closes.

No report will be accepted after Saturday, May 25.

The new Tech button, a neat little buttonhole insignia in cardinal and gray silk, has come from Paris. Already many of these buttons are to be seen about the Institute.

Outdoor Work

We have a lot of it to do this Summer for our three popular magazines—EVERYBODY'S, THE DELINEATOR, and ADVENTURE. We prefer to have College men do this work. YOU can make hundreds of dollars working for us. It costs you nothing to get the information. Two or more men may travel together.

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THE TECH

VOL. XXXI. NO. 170

BOSTON, MASS., FRIDAY, MAY 17, 1912

PRICE TWO CENTS

BUSINESS LAW EXAMS HELD NEXT MONDAY

Copies of Previous Examinations Will Help Men Taking Subject.

The examination in Business Law will be held next Monday. Men taking this subject may be interested in the following questions from old exam papers which indicate in a general way what is to be expected:

May, 1907.

1. Draw a partnership agreement, briefly covering the points mentioned in lectures.

2. (a) Define a contract. (b) Define consideration.

3. A town, at a town meeting duly assembled, voted to pay bounties to those citizens of the town who had enlisted in the United States Army. A few citizens objected. Shall the bounties be paid? If any action of the Legislature may affect the question, state why? If not, why not?

4. A died, leaving \$10,000 to B in trust to pay the income to C for life, and at C's death to pay \$10,000 to the children of C. B, being unable to find a satisfactory investment, uses the money in his own business, giving to himself as trustee a note bearing 5% percent. interest, secured by ample bonds of his own. What are the rights and liabilities of A and B relative to this matter? Give reasons for your answer.

5. A contracted with the New York Press Company to make press reports from the New York Press Company for two years, paying therefor not more than \$300 per week. At the end of six months A refused to longer receive or pay for the reports. What is his liability?

May, 1909.

1. A told B that if B would come within one week to A, he (A) would give him a good job. B came and A refused to hire him. What, if anything are B's rights? Explain.

A, on aged 17, was playing ball and threw the ball negligently through a window, damaging a valuable painting in the room. Is anyone liable to (Continued to Page 3, Col. 2.)

COSMOPOLITANS ELECT.

L. H. Lehmaier Chosen President For Coming Season.

The annual business meeting and election of officers of the Cosmopolitan Club took place yesterday afternoon in the Union. The 10 men elected were: President, L. H. Lehmaier, '13; First Vice-President, N. S. Salibi, '13; Second Vice-President, Z. Y. Chow, '14; Secretary-Treasurer, S. H. Taylor, '14. The chairman of committees will be elected at the beginning of the next year.

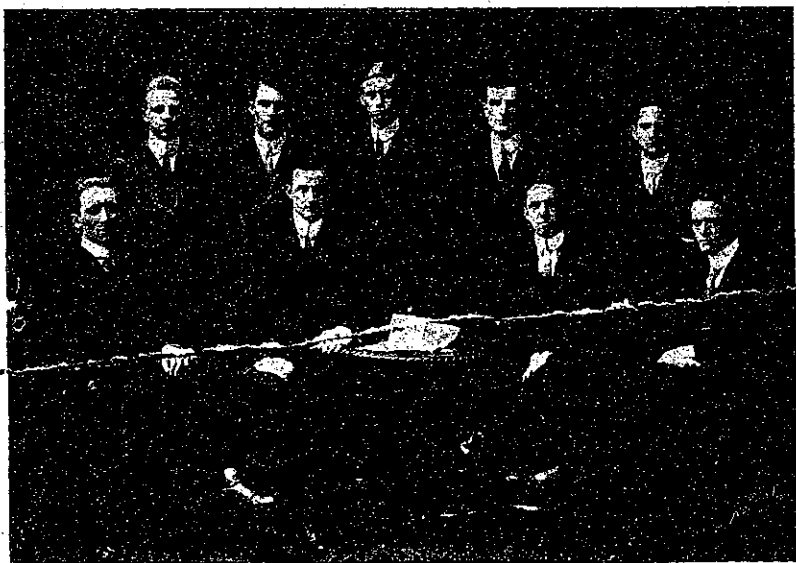
First Vice-President Salibi suggested that the Club carry out a program similar to that of the T. C. A. in helping the Freshmen in the intricacies of registration. According to his plan the Secretary will send out notices to every member of the Club early in September, asking them to give individual aid.

The general affairs of the Club were discussed and many plans for the coming year were considered. The secretary's report contained various recommendations for economy, which will be incorporated in next year's program. His report announced that the Club came out of a successful season with a fair surplus.

TECH BOARD HOLDS BIG ANNUAL BANQUET

Institute Newspaper Men Listen to Words of Advice and Encouragement.

Volume Thirty-One of THE TECH drew a mighty breath last night and expired in a burst of glory. Twenty of the men who have been working for the paper during the last year gathered at the Copley Square Hotel to hear Professor Arlo Bates, Mr. J. R. Ruiter, and Mr. R. Pearl speak of their relations with THE TECH. After an excellent dinner, the men listened to the words of praise and condemnation that fell from the lips of THE TECH'S printer, Mr. Ruiter. After he had finished, Mr. A. T. Gibson, the toastmaster, introduced Pro-



STANDING: WHITMAN, LEHMAIER, CARY, PASTENE, WAITT.
SITTING: CHANDLER, HALL, TARR, GIBSON.

fessor Bates, who spoke of the need of keeping one's eyes open, of finding in the everyday happenings of the Institute some items of interest. He suggested that to further the ability to observe, and to make one's observations of value, the men jot down during the summer outlines of such material as may be of value next year for editorials and stories.

The coach, Mr. R. Pearl, then told of the three advantages that accrue to the man who does newspaper work. In the first place, he learns to meet men, to become a part of the life of today. Then he learns self-confidence. And the third advantage comes from the ability to judge values correctly.

Mr. Marcy and Mr. Sears of the advisory board, Chandler, Cary, Lehmaier, Gibson, Waitt and Van Volkenburgh of this year's managing boards gave short talks upon the work of the coming year.

The toastmaster then announced the following elections for Volume XXXII:

Algernon T. Gibson is next year's General Manager; Lionel H. Lehmaier, Editor-in-Chief; Alden H. Waitt, Managing Editor; S. Howell Taylor, Assignment Editor; D. Ethelbert Van Volkenburgh, Business Manager; Bertram E. Adams, Advertising Manager; and Gabe B. Hilton, Circulation Manager.

The following men have been elected to the News Boards: Maurice Paris and P. J. Munn as Institute Editors, Merton B. Lewis and Ernest W. Mann as Athletic Editors, and E. B. Goodell and Homer Rogers as Soci-

(Continued on Page 4.)

SOPHOMORES TO PLAY FRESHMEN

Deciding Game of Championship Series to Be Played Saturday.

Saturday afternoon the Sophomores again meet the Freshmen on the diamond to decide the class championship. Each team has won one game, the Sophs. the first, with a score of 9-6; the Freshmen the second, with a 4-3 score. The first contest showed ragged baseball on the part of the underclassmen and good fielding by the Sophs. In the second, the Freshmen came back with a vim and won the game after good team work and heady playing. Both teams did rather poor work against the high school nines that they played, each

winning only one game out of the series, but the rivalry between the classes has whetted baseball enthusiasm to such a point that the issue of the deciding game of the series on Saturday is entirely uncertain.

The probable line up of the teams is as follows:

Freshmen.	Sophomores.
Scully, 2b.	2b. Comber
Franks, 3b.	cf. Page
Morse, 1b.	3b. Bryant
McDeavitt, cf.	c. Storke
McCaffery, ss.	lf. Hardy
McIntyre, cf.	rf. Hughes
Howlett, rf.	1b. Tirrell
Hall, Baldrey, c.	ss. Gardner
Turner, Bauer, p.	p. Morrison

SUMMER SCHOOL COURSE.

Mechanical Laboratories to Open Wednesday, June 5.

Courses corresponding to those of the regular work in Woodworking and Pattern Making, Chipping and Filing (Vise and Bench work), will be given at the Mechanical Laboratories, Garrison street, beginning Wednesday, June 5, and in Forging, Machine Tool Work and Metal Turning beginning Monday, June 10.

Institute students can make arrangements to take two classes during the summer, thus gaining an opportunity to anticipate these subjects and get more time for advanced work. These courses are open also to teachers and others who desire a knowledge of Mechanical Arts. Each department is equipped with the finest

(Continued on Page 4.)

TECH MEN IN SHAPE FOR BIG TRACK MEET

Good Times Expected in Running Events—Weight Throwers Lacking.

Fifteen track men left at 8.30 this morning for Springfield in fine shape to give Dartmouth a contest for first place. The weight men of the New Hampshire college will probably win the meet for them, as they have the best men in New England. Their distance men will further help their chances.

Although Tech will be handicapped by the lack of weight men, Coach Kanaly has developed men in the running events, who will give the fastest runners in New England a hard race for first places. The loss of L. A. Wilson, '14, will be keenly felt, but H. S. Wilkins, '14, can be depended on to make a good showing in both the 100 and 220 yards.

T. H. Guething, '14, looks to be about the fastest quarter-miler entered, and is expected to have an easy time beating out every one except Steinhert of Dartmouth. R. C. Thomson, '13, has also shown a lot of speed. E. R. Marceau, '12, and W. Bylund, '12, have been doing the half-mile in as fast time as any of the men whom they will have to run against, and are expected to get two places for the Institute team.

E. Germain, '13, will have to do his best to get first place in the mile event, as this race will bring out the greatest collection of milers than has been gathered in a single meet in many years. Taber of Brown, Keith of W. P. I., and Powers of Maine, have all done near 4 minutes 25 seconds, and a record is expected.

G. C. Shedd, '14, has been showing his old time form in the two-mile, and looks good for a place in the two-mile race, in which he took second last year.

Tech will not get many points in the field events, with the exception of the high jump, where Captain Dalrymple has a good chance to get one of the first places. Metcalf and MacLeod may gather some of the points in the shot-put, discus and hammer.

The following men were taken: P. W. Dalrymple, '12; E. Teeson, '15; H. S. Wilkins, '14; E. T. Marceau, '12; W. Bylund, '13; E. Germain, '13; A. B. Curtis, '15; E. E. Perry, '12; T. H. Guething, '14; D. N. MacLeod, '14; A. F. Nye, '14; W. H. Hines, '14; L. Metcalf, '12; L. S. Hall, '14; G. C. Shedd, '14.

PRIZE DRILL.

At quarter of eight tonight the Institute Battalion will have its annual Prize Drill at the South Armory. Captain Achard will open the drill by putting Company A through the manual. He will be followed by Company C under the command of Captain Pastene. The individual drill will then be given by a squad from each company. The last two companies, B and D, under the command of Captains Hamilton and Barnes, will close the drill.

It is probable that the Freshmen will then follow the time-honored custom of burning their gloves and collars on Rogers' steps.

THE WEATHER.

Forecast for Boston and vicinity: Rain probably Friday; brisk easterly winds, becoming variable.

THE TECH

Published daily, except Sunday, during the college year by students of the Massachusetts Institute of Technology.

Entered as second-class matter, Sept. 15, 1911, at the postoffice at Boston, Mass., under the act of Congress of March 3, 1879.

Office, 42 Trinity Place.
Phone—Back Bay 5527 or 2150.
Night Phone—Back Bay 5527.

Subscriptions, \$2.00 per year, in advance.
Single copies, 2 cents.
Subscriptions within the Boston Post District and outside of the United States must be accompanied by postage at the rate of one cent a copy.

Printed by Rutter, 147 Columbia Ave

FRIDAY, MAY 17, 1912

CO-OPERATION.

With this issue THE TECH concludes its labors for the year. In many respects we believe it has been one of the most prosperous years of its history, and especially that the present prospects are promising for increased future prosperity and usefulness.

The prime object of the existence of THE TECH is the part it plays in uniting undergraduate interests. No other activity in the Institute enjoys the same opportunities, nor is under the same obligations. We wish to thoroughly appreciate our opportunities and feel the weight of our responsibilities. But we also desire to feel that we are appreciated at least in some measure by the student body, and it is absolutely impossible for us to fulfill our purpose if opposition in certain quarters handicaps our efforts and narrows our field. Therefore we extend an earnest invitation to the Institute to aid THE TECH in its efforts to fill its true place, an invitation to co-operate in bringing about a more wholesome and enthusiastic undergraduate spirit.

We recognize that in the past the attitude assumed by THE TECH toward other activities may be not fault for some of the later difficulties. We now maintain that THE TECH is determined to remove any such tendencies. In order that we may be really useful we must enjoy the full confidence of the Institute and enlist the active support of the strongest men. That this will be the aim of THE TECH next year we promise. The success of our efforts depends upon the co-operation of the Institute.

EDITORIAL PRIZE.

We are glad to announce that Pi Delta Epsilon, the Honorary Journalistic Fraternity, will give a prize of five dollars next year for the best series of editorials published in THE TECH. We regard this a great step in the right direction and have no doubt that it will result in a marked advance in the quality of this department of the paper.

MINERS' ELECTIONS.

Professor Richards Tells of His Trip to Mining Colleges.

Prof. Richards, head of the Department of Mining Engineering, addressed the Mining Society at its last meeting, with his Western Trip and inspection of other Mining Colleges as his subject. He said that the Technology plant could be favorably compared with any of the western college mining equipments and that it was superior to many. In conclusion he spoke on the opportunities of mining engineers and gave many interesting anecdotes.

After the talk, the results of the election of officers for next year were announced by retiring President L. B. Duke, '12, as follows: L. H. Lehmaier, '13, President; H. M. Lawrence, '13, Vice-President and Treasurer; C. G. Fallon, '13, Secretary; W. L. Whitehead, '13, and C. F. Thomas, '14, for the executive committee.

TECH NORTHFIELD DELEGATION PLANNED

Annual Conference Will Be Held On Banks of Connecticut in June.

This year, for the first time, the Technology Christian Association is planning to send a delegation to the Northfield Student Conference, which meets at East Northfield, Mass., from June 21 to July 1. One or two Tech men have attended past conferences, but never as Tech representatives.

The spirit of Northfield is the spirit of the open-minded and active Christian. It stands for a full development of all the powers of every college man as a means of bringing the Christian religion to meet the needs of men.

The time is proportioned between study, recreation, and social intercourse; the mornings and evenings are taken by study, conference and meeting, and the afternoon is given up entirely to recreation, baseball, tennis, swimming and walks in the hills of the Connecticut valley.

There are two regular meetings each evening, one informal and outdoors, the other in the Auditorium. Just as sunset the Conference gathers on Round Top for the Life Work Meeting, which the delegates are apt to look back upon as the best of a host of good things. The delegates sit facing the Connecticut valley and river just as the sun sets, and usually remain until darkness. The talks are short, and designed to be valuable in helping a man choose his profession. The other evening meeting is more in the nature of a church service with a regular sermon, and is held at eight in the Auditorium. Later the separate delegations often meet for their private discussions.

There are various classes, among them a series for the men who expect to occupy positions of leadership in the Student Associations, and the T. C. A. is especially hoping that some of the men here will attend so that they can carry on the work in the Institute more wisely, enthusiastically, and successfully than will be possible otherwise.

The list of speakers includes men of national and world-wide reputations. Among them will be the Rev. D. S. Cairns of Aberdeen, Robert E. Speer, John R. Mott, and Rev. G. G. Atkins of Providence.

Secretary Talbot of the T. C. A. will be glad to tell further details of the conference to anyone interested, and Ralph B. Kennard, '13, or R. F. Barratt, '14, will furnish information about the place, the men, the meetings, the recreations.

SMOKER POSTPONED.

The smoker of the Electrical Engineering Society, scheduled to take place in the Union at 7.30 last night, has been indefinitely postponed. Fifteen or twenty of the Electricals appeared in due season, but the men having the smoker in charge thought that this was not enough to warrant preparing the refreshments which they had planned to serve. The few present, however, whiled away a pleasant half hour with Tech songs and stories over the cigars provided by the society. The loyal members then departed, a little disappointed at the outcome of the evening. It has not been decided whether the smoker will be held next week, as that is a busy time for most of the men.

BATTALION REVIEW.

Freshmen Go Through Maneuvers Before U. S. A. Inspector.

Yesterday afternoon in the Armory, the Freshman Battalion was reviewed and thoroughly inspected.

At 3.15 the companies passed in review before the government inspector. (Continued to Page 4.)

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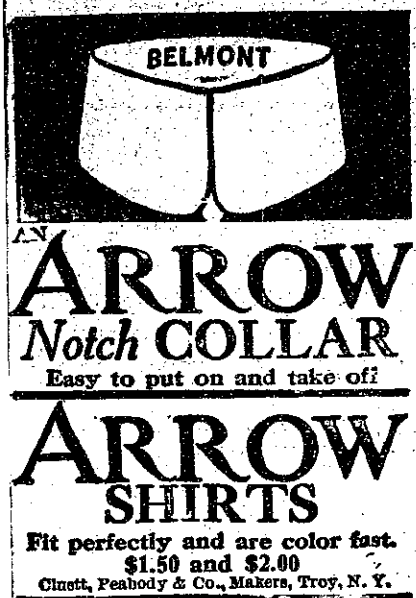
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BIOLOGICAL MEETING.

Election of Officers — Important Amendment Adopted.

The Biological Society held a meeting in 28 Pierce, Thursday afternoon, at which officers for the coming year were elected. The matter of changing the name of the society to the Bio-Sanitary or the Biol-Sanitary Society was brought up before the members. After a spirited discussion, which was with difficulty kept within the bounds of parliamentary procedure, a committee was appointed to look into the matter and report upon it at the next meeting.

An amendment to elect the officers for a term of one year, instead of a half year, as heretofore, was passed. Under this amendment the officers for the ensuing year are as follows: E. M. Tolman, '13, Course XI, President; H. N. Calver, '14, Course XI, Secretary-Treasurer; S. Schneider, '14, Course VII, Assistant Secretary-Treasurer. They took office immediately, and began their good work by collecting dues from all present.

BUSINESS LAW EXAMS.

(Continued from Page 1, Col. 1.)
the owner of the painting? If so, who? If not, why not? (b) Would it make any difference if A said to the owner: "Don't make any trouble about this, I will pay all of the damages?" Why or why not?

3. Are the rights of the railroad or a pedestrian at a crossing at grade of a railroad and a street? What are the rights of each?

4. Define a corporation.

5. State briefly the decision of the Court in Fansworth vs. Hemmer 1 Allen 494.

September, 1909.

1. What is a partnership?

2. What is meant by the right of eminent domain?

3. A bought for immediate delivery an unusual amount of goods from B on 60 days' credit, and two days after the receipt of the goods made an assignment for the benefit of his creditors. An examination of A's books showed that he was insolvent and had been insolvent for some months. The term of credit not having expired B asks your advice. What should he do and what must he prove in order to succeed?

4. The purchasing of a large corporation about to buy a large quantity of goods solicited bids from different persons; two bids were exactly the same and were lower than all the other bids. Each of these two bidders informed the purchasing agent that the bids represented the lowest possible price at which they would sell, but one of the bidders offered the purchasing agent \$500 as "a personal present" if his firm's bid was accepted. \$500 paid. To whom does the \$500 belong and why?

5. A's coachman was desirous of driving his (the coachman's) family into the country for a day, and for this purpose borrowed from A the horses and wagon. While driving he carelessly ran into a foot passenger who was crossing the street, but not at a regular crossing. Is A liable for the injury? If so, why, and if not, why not?

ANNUAL DINNER OF K₂S.

Interesting Speeches and Plans For Next Year.

The K₂S. held its annual dinner last Wednesday evening in the Copley Square Hotel, about forty active and associate members being present. Professor Robert S. Williams served as toastmaster, and among the speakers were Professor Arthur A. Noyes, Professor William H. Walker, the new head of the chemical engineering course; Frederic R. Kneeland, Dr. John F. Norton, Professor Warren
(Continued on Page 4.)

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SUMMER SCHOOL

(Continued from Page 1.)
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BATTALION REVIEW

Major Cole, and Cadet Major Taft as reviewing officers. Following this, each captain took his company out on the floor, and several platoon movements executed.

After the companies had been inspected the Battalion was drawn up for individual inspection, with the reviewing officer asking questions of many of the fellows about the gun. The companies were then dismissed.

Wagoner of Yale was tied in the pole vault by Fiske of Princeton at 12 feet 6 7-8 inches.

K2S DINNER

(Continued from Page 3.)
K. Lewis, Professor Henry Fay and Professor James F. Norris of Simmons College. Letters of regret were read from many of the associate members who were unable to be present at the dinner.

Plans are now maturing for the formation of an Alumni association, with branches in Boston, New York and other centres where several of the K.S. men may be located. Plans are also being laid for the house which the society expects to have in Cambridge. A register of the society, which will contain the addresses of about three hundred members, is soon to be published.

THE TECH DINNER.

(Continued from Page 1.)
eties' Editors. The Business Board will be represented next year by A. C. Hawgood.

T. W. Burkhart, L. H. Chellman, S. Berkowitz, J. Myneman and Lindsay Lamb are now members of the news staff.

Outdoor Work

We have a lot of it to do this Summer for our three popular magazines—EVERYBODY'S, THE DELINEATOR, and ADVENTURE. We prefer to have College men do this work. YOU can make hundreds of dollars working for us. It costs you nothing to get the information. Two or more men may travel together.

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